INDEX OF AUTHORS

Page numbers in italics refer to abstracts of papers given at a meeting of the Genetical Society and to titles of books reviewed.

Alvarez, G., 147–157
Arst, H. N. Jr., *208*

Barton, N., *213*
Barton, N. H., 139–146
Beeby, R., *213*
Blouw, D. M., 275–281
Briscoe, D. A., 97–103
Brooker, P. C., 303–310
Buxton, F. P., *210–211*

Carpenter, G. R., *201–202*
Carroll, C., *211*
Chambers, G. K., 67–72
Christie, P., 295–302
Clarke, C. H., *205*
Clarke, Sir C., *205*
Cocking, E. C., 197–200
Collinge, D. B., *206–207*
Collins, S. C., *205*
Cook, L. M., 321–322

Davis, S. J. M., 303–310
Dover, G., *206*
Dunn, M. A., *207*

Eanes, W. F., 67–72

Fearon, C. H., 35–45, 169–177
Fernandez-Piqueras, J., 217–223
Finch, R. A., 179–189, 191–195
Fincham, J. R. S., *209*
Fitch, W. M., 213
Franklin, J., 179–189

Gibson, J. B., 67–72
Gottlieb, L. D., *214*
Grove, W. R., *201–202*

Hagen, D. W., 275–281
Halliday, R. B., 139–146
Hamill, J. D., 197–200
Harvey, C., *210*
Hayward, M. D., 35–45, 169–177
Hewitt, G. M., 139–146
Houghton, J. A., *211*
Hughes, M. A., *206–207, 207*

Ibrahim, M. A. K., *211*

Jinks, J. L., 73–83, 311–320
Jones, J. S., *212*
Jones, R. N., 119–137, *323–324*

Kacser, H., *213*
Kammerer, C. M., 237–251
Kinnaird, J. A., *209*

Lamb, B. C., *206*
Lande, R., 47–65, *214*
Lawrence, M. J., 35–45, 169–177

McCraw, J. M., 21–27, 29–33
McKenna, P. G., *207–208*
Macnair, M. R., 283–293, 295–302
Manning, J. T., 15–19, 91–93
Martinelli, S. D., *209, 209–210, 210*
Matthews, R. B., 119–137
Miflin, B. J., 179–189
Morgan, A. J., *211–212*
Müller, A. J., 197–200

Nash, H. R., 303–310
Nicolaidis, A., *211–212*

Oakeshott, J. G., 67–72

Palfrey, R., *210*
Parmar, S., 179–189
Pental, D., 197–200
Pooni, H. S., 73–83, 311–320

Radford, A., *210–211*
Rees, H., 323–324
Roberts, T. J., *209, 209–210*
Rodriguez Campos, A., 217–223
Rojo Garcia, E., 217–223

Santos, M., 147–157
Seal, A. G., 225–236
Sedgewick, S. G., *208*
Sealey-Lewis, H. M., *209*
Scazzocchio, C., *209*
Sentis Castaño, C., 217–223
Shaw, M. W., 1–14
Shewry, P. R., 179–189
Sims, S. R., 159–168
Spoor, W., 21–27, 29–33
Stain, P., 105–118

Tollervey, D. W., *208*
Tomkins, P., *211*
Turner, J. R. G., *212*

Van Damme, J. M. M., 253–273

Wagner, A. E., 97–103

Willcocks, D. A., 67–72
Wright, A. J., 85–89

Yarranton, G. T., *208*
Yassen, A. A., *207–208*
Young, S. S. Y., 237–251

Zapata, C., 147–157

INDEX OF SPECIES

Page numbers in italics refer to the subjects of the paper.

Aegilops speltoides, 229
Allium, 228
  fistulosum, 193
  cepa, 226
Agrostis stolonifera, 292
  tenuis, 283, 292
Anabrus simplex, 220
Anolis, 97
  angusticeps, 101
Anthoxanthum odoratum, 283
Apeltes quadracus, *275–281*
Ascobolus immersus, *206*
Aspergillus nidulans, *208*, *209*, 210
Astyanax, 97
  mexicanus, 101

barley, *179–189*, *191–195*
B. betularia, 1
Battus philenor, 159, 166
Beta vulgaris, 44
Brassica, 269
Briza media, 21, 32
  spicata, 21, 32

Caedicia marginata, 220
Campanula persicifolia, 193
Cerion spp, 144
Centaurea scabiosa, 135
Cepaea, *212*
Chenopodium quinoa, 254
Clarkia amoena, 193
Coeroba flaveola, 1
Cortaderia richardii, 269
Crepis capillaris, 193
  tectorum, 193

Dactylis aschersoniana, 21
  glomerata, 292
Datura stramonium, 193
Daucus carota, 269
Drosophila, 47, 49, 62, 148, *212*, 295
  melanogaster, *67–72*, *206*, *237–251*
  pseudoobscura, 296

Erysiphe graminis, 181
Escherichia coli, *208*, *210–211*

Festuca, 225–236
  alpina, 226, 227
  altissima, 226, 227
  arundinacea, 226, 227, 230, 231, 233, 234
    var *atlantigena*, 226, 227, 230, 233, 234
    var *glaucescens*, 226, 227, 230, 231
Festuca—continued
    var *letourneauxiana*, 226, 227, 231, 233, 234
  donax, 226, 227
  drymeja, 226, 227, 228, 235
  gigantia, 226, 227
  mairei, 226, 227, 228, 230, 231, 233, 234
  ovina, 283
    var *firmula*, 226, 227
  polesica, 226, 227
  pratensis, 21, 44, 135, 175, 226, 227, 230, 231–234
  rubra, 226, 227
  rupicaprina, 226, 227
  scariosa, 226, 227, 230, 234, 235
Foeniculum vulgare, 160, 165

Galtonia candidans, 193
Gonodontis bidentata, 49

Halobacterium halobium, *205*
Heliconius, *212*
Helianthus annuus, 270
Hordeum bulbosum, 21
  vulgare, 180, 193
house mouse, *303–310*
human, *211*
Hyacinthus orientalis, 193
Hypochoeris maculata, 193

Lactuca sativa, 269
Leontodon hispidus, 193
Lilium auratum, 135
  callosum, 135
  formosanum, 193
Limnanthes douglasii, 269
Lolium spp. 10, 32, 225
  multiflorum, 21, *29–33*, *35–45*
  perenne, 21, *29–33*, 35, 40, 41, 43, 44, *169–177*
  rigidum, *21–27*, 31
Lycopersicon spp., 176
  esculentum, 193

Matthiola incana, 193
Mercurialis annua, 253, 269, 270
Mimulus guttatus, *283–293*, *295–302*
Mirounga angustirostris, 101
Mus musculus, 144, *303–310*
Myrmeleotettix maculatus, *1–14*, 135

Nemophila menziesii, 253
Neurospora crassa, *209*, *210–211*

Nicandra physalodes, 193
Nicotiana alata, 193
  rustica, *73–83*, 175, 270, *311–320*
  sanderae, 175
  tabacum, *197–200*

Origanum vulgare, 253, 269, 270
Oryza sativa, 254

Papilio dardanus, 205
  demoleus, 160
  machaon, 159
  polytes, 159, 160, 166
  polyxenes, 159, 160, 166
  protenor demetrius, 159
  xuthus, 159, 160, 166
  zelicaon, *159–168*
  phorcas, 205
  "Nandinoc", 205
Partula, 144
  sutaralis, 296
Petunia F_1, 193
  hybrids, 176, 269
Pennisetum typhoides, 193
Phaseolus vulgare, 269
Phleum phleoides, 135
Plantago lanceolata, *253–273*
    var. *androxanthum*, 267
    var. *anthoviridis*, 267
Phalaris coerulescens, 21
Polemonium coeruleum, 269
Podisma pedestris, 135, *139–146*, 296
Polichne parvicauda, 220
Pseudococcus obscura, 135
Puccinia striiformis, 180

Pycnogaster cucullata, *217–223*

Rana belandieri, 144
  utricularia, 144
Ranunculus acris, 44
rye, *119–137*
ryegrass, *35–45*

Saccharomyces cerevisiae, *206*, *211–212*
Schizosaccharomyces pombe, *211*, *211–212*
Scilla autumnalis, 193
Secale cereale, 21, 132, 133, 193, 270
  vavilovii, 133
Silene inflata, 283
Sordaria brevicollis, *206*
  fimicola, *206*
Stickleback, 275–281

Trandescantia edwardsiana, 135
Trifolium hybridum, 176
  pratense, 176
  repens, 176, *206*, *207*
Trigona australis, *97–103*
  carbonaria, *97–103*
Triticum aestivum, 269, 270

Uroderma bilobatum convexum, 144
    davisii, 144

Vicia faba, 254

Yorkiella picta, 220

Zea mays, 193, 254, 269

INDEX OF SUBJECTS

absence of enzyme variability in *Trigona*, 97–103
adaptive evolution by major mutations, 47–65
allele frequencies in *D. melanogaster*, 67–72
analysis of triple test crosses, 311–320
asexual species, multi-clonal, 15–19
associated and dispersed testers, 73–83

B-chromosomes (book), 323–324
, frequency cline, 1–14
, polymorphism in rye, 119–137
bodyweight, directional selection for, in *D. melanogaster*, 237–251

characterisation of the *Li* locus in *Trifolium repens*, 207
chromosomal location of storage proteins, 179–189
rearrangement in speciation, 214
chromosomes of human spermatozoa, 211
cloning of the pyr-4 gene of *Neurospora*, 210
copper tolerance in *Mimulus*, 283–293, 295–302
cycloheximide and emetine resistance in *S. pombe*, 211

differential flowering time in adjacent plant populations, 105–118
dimorphism in *Papilio*, genetic basis of, 159–168
diploid barley, viable long-arm deficiency in, 191–195
disequilibrium in selection programmes, 85–89
DNA variation in *Festuca*, 225–236
dorsal spines, heritability of, 275–281
double mutant in *Nicotiana*, 197–200
dynamics of B-chromosome polymorphism, 119–137

enzyme species, origin of, by natural selection, 213
variability in *Trigona*, 97–103
evolution by jerks, 212
of reproductive isolation, 105–118

fitness estimation at sex-linked loci, 147–157
fixation of a major mutation, 51–57
frequency cline, rapid movement of, 1–14
dependent selection, detection of, 321–322

gene flow and speciation, 213
genetic basis of dimorphism in *Papilio*, 159–168
change and speciation, 212
control in diploid *Lolium*, 35–45
model for locus controlling cyanogenic glucosides in *Trifolium repens*, 206–207
transfusion, 211–212
genetics of copper tolerance in *Mimulus*, 283–293
Gpd and Pgd allele frequencies in *D. melanogaster*, 67–72
gynodioesy in *Plantago*, 253–273

half-sib and mass selection, effects of, on linkage disequilibrium, 85–89
heritability of dorsal spines in sticklebacks, 275–281
hermaphroditism and the sampling error model, 91–93
histidinol utilising mutant of *Aspergillus*, 210
Hordein, the storage protein in barley, 179–189

incompatibility genotype in ryegrass, 169–177
phenotype, 37
inheritance of male sterility in *Plantago*, 253–273
intron in the *Am* gene in *Neurospora*, 209

linkage and seed-set in *Lolium*, 35–45
disequilibrium in selection, 85–89
Lolium, self-incompatibility in, 21–27, 29–33

male sterility, inheritance of, 253–273
meiotic gene conversion in *Drosophila* and fungi, 206
mimicry in *Papilio*, 205
molecular models of speciation, 206
morphogenesis and speciation in plants, 214
mutational evolution of an archaebacterial gene, 205
mutation in clones, 15–19
, response to selection on, 47–65

Nature and Nuture, connection between, (book), 201–202
negative complementation of *E. coli* rec gene, 208

origin of mice populations in N.E. Scotland, 303–310

phenotypic suppression of mutations in *Neurospora*, 209
plasmid transfer in yeasts, 211–212
pleiotropic effect of copper tolerance, 295–302
polymorphism, adaptive, of a major mutation, 57–61
  in grasshoppers, 139–146
  in rye, 119–137
pupal colour dimorphism in *Papilio*, 159–168

rare electrophoretic variants, frequency of, 139–146
regulatory gene in *Aspergillus*, 208
reproductive isolation in *Mimulus*, 295–302
Robertsonian translocations in mice, 303–310
ryegrass, self-incompatibility in, 35–45

selection at sex-linked loci, 147–157
  for body-weight in *D. melanogaster*, 237–251
  on major and minor mutations, 47–65
self-incompatibility in *Lolium*, 21–27, 29–33
  ryegrass, 35–45, 169–177
sex-chromosome evolution, 217–223
somatic hybridization studies in *Nicotiana*, 197–200
storage protein in barley, 179–189
suppressible mutations, 209, 210

thymidine kinase-deficient leukaemia cells, 207–208
triple test crosses, analysis of, 311–320
  , associated and dispersed testers in, 73–83

variability, enzyme, 97–103
variants in a hybrid zone, 139–146
variation in DNA in *Festuca*, 225–236
  G6*pd* and Pg*d* in *D. melanogaster*, 67–72
viable deficiency in barley, 191–195